



Views of the Future — **Spray Combustion/Hazardous Waste**

- Spray and aerosol cloud combustion accounts for 25% of the world's energy use yet remains poorly understood from both a fundamental and practical perspective.
 - Characteristics of realistic sprays includes a liquid breakup region, multiphase flow, turbulent mixing, and flame interactions.
- ◆ Idealization of spray configurations in a quiescent environment (the starting point for models) has been impossible in 1g due to sedimentation of large droplets, buoyant plumes of post-combustion gases, and the need for mixing devices.
 - Microgravity offers the promise of such idealization.